

**In the Claims:**

*Please delete the word "Claims" and insert --What is claimed is:-- therefor.*

*Please amend the claims as follows:*

1. (currently amended) ~~Mobile~~ A mobile electronic system comprising
  - output means (12,42) enabling a presentation of information to a user of said mobile electronic system;
  - a 3D magnetometer (51) performing magnetic measurements in three dimensions and providing data indicative of the current posture of said mobile electronic system based on said measurements; and
  - processing means (52,54) processing said data provided by said 3D magnetometer (51) for enabling a posture related presentation of information via said output means (12,42), including selecting one of at least two different modes of presentation based on said data provided by said 3D magnetometer.
2. (currently amended) ~~Mobile~~ The mobile electronic system according to claim 1, wherein said processing means present compass information (13,14,15,43-46) via said output means (12,42) based on said data provided by said 3D magnetometer.
3. (currently amended) ~~Mobile~~ The mobile electronic system according to claim 2, wherein said output means comprise a 3D display (42) on which said compass information (43-46) is presented.

4. (currently amended) ~~Mobile~~ The mobile electronic system according to claim 3, wherein said processing means present a floating compass (43-46) on said 3D display (42) based on said data provided by said 3D magnetometer.
5. (currently amended) ~~Mobile~~ The mobile electronic system according to ~~one of the preceding claims~~ claim 1, further comprising additional sensor means (50) providing additional measurement data, wherein said processing means use said additional measurement data in addition for enabling a posture related presentation of information (43-46) via said output means (42).
6. (currently amended) ~~Mobile~~ The mobile electronic system according to claim 5, wherein said processing means use said additional measurement data provided by said additional sensor means at least for one of the following: adjusting a presentation of information via said output means and filtering signals provided by said 3D magnetometer.
7. (currently amended) ~~Mobile~~ The mobile electronic system according to claim 5 [[or 6]], wherein said sensor means comprise a 2D or 3D linear accelerometer measuring the acceleration of said mobile electronic system in three dimensions.
8. (currently amended) ~~Mobile~~ The mobile electronic system according to ~~one of claims 5 to 7~~ claim 5, wherein said sensor means comprise a 3D angular accelerometer (50) measuring the angular acceleration of said mobile electronic system in three dimensions.
9. (currently amended) ~~Mobile~~ The mobile electronic system according to claim 8, wherein said 3D magnetometer (51) provides first data indicating a current heading of said mobile electronic system, wherein said 3D angular accelerometer (50) provides second data indicating a current heading of said mobile electronic system, and wherein said processing

means comprise a complementary filter (52-54) combining said first and said second data indicating a current heading of said mobile electronic system.

10. (currently amended) ~~Mobile~~ The mobile electronic system according to ~~one of the preceding claims~~ claim 1, realizing an inertial navigation system.
11. (currently amended) ~~Mobile~~ The mobile electronic system according to ~~one of the preceding claims~~ claim 1, wherein at least said output means are comprised in a user equipment, wherein at least said 3D magnetometer is comprised in a complementary unit external to said user equipment, wherein said user equipment and said complementary unit comprise respective connection means rigidly and electrically connecting said complementary unit and said user equipment for providing signals which are based on magnetic measurements of said 3D magnetometer to said user equipment.
12. (currently amended) ~~Complementary~~ A complementary unit for a mobile electronic system according to claim 11.
13. (currently amended) ~~[[User]]~~ A user equipment for a mobile electronic system according to claim 11.
14. (currently amended) ~~[[User]]~~ A user equipment comprising a mobile electronic system according to ~~one of claims 1 to 11~~ claim 1.
15. (currently amended) ~~Method~~ A method for use in a mobile electronic system, said method comprising:
  - performing magnetic measurements in three dimensions in said mobile electronic system;

- determining data indicative of the current posture of said mobile electronic system based on said performed magnetic measurements; and
- processing said data for enabling a posture related presentation of information to a user of said mobile electronic system, said processing comprising selecting one of at least two different modes of presentation based on said data indicative of the current posture of said mobile electronic system.

16. (currently amended) ~~Method~~ The method according to claim 15, comprising presenting compass information (13,14,15,43-46) obtained in said processing.
17. (currently amended) ~~Method~~ The method according to claim 16, comprising presenting said compass information (43-46) on a display (42).
18. (currently amended) ~~Method~~ The method according to claim 17, comprising presenting a floating compass (43-46) on a 3D display (42).
19. (currently amended) ~~Method~~ The method according to ~~one of claims 14 to 18~~ claim 15, further comprising performing additional measurements in said mobile electronic system, wherein said processing is based in addition on measurement data resulting in said additional measurements.
20. (currently amended) ~~Method~~ The method according to claim 19, wherein said processing comprises using said additional measurement data at least for one of the following:  
adjusting a presentation of information and filtering signals resulting in said performed magnetic measurements.

21. (currently amended) ~~Method~~ The method according to claim 19 [[or 20]], wherein performing said additional measurements comprises measuring the acceleration of said mobile electronic system in three dimensions.
22. (currently amended) ~~Method~~ The method according to ~~one of claims 19 to 21~~ claim 19, wherein performing said additional measurements comprises measuring the angular acceleration of said mobile electronic system in three dimensions.
23. (currently amended) ~~Method~~ The method according to claim 22, wherein said processing comprises combining first data indicating a current heading of said mobile electronic system and second data indicating a current heading of said mobile electronic system by a complementary filtering, which first data is based on said magnetic measurements and which second data is based on said angular acceleration measurement.